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SAN DIEGO COUNTY WATER AUTHORITY'S AQUEDUCT PROTECTION PROGRAM

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ABSTRACT: The San Diego County Water Authority (Water Authority) has over 400 kilometers (km) of large diameter pipelines that provides up to 95 percent of the water to San Diego County's 3 million people. In this 400 km is 133 km of prestressed concrete cylinder pipe (PCCP) manufactured between 1958 and 1982 ranging in diameters of 168 cm to 244 cm. In order to provide a safe and reliable supply of water to San Diego County, the Water Authority implemented the Aqueduct Protection Program (APP) in 1992 which includes the condition assessment of the Water Authority's PCCP. Part of the program consists of developing and researching new non-invasive/non-destructive inspection procedures to determine the condition of existing PCCP.

This paper discusses the PCCP condition assessment program with a focus on the inspection and monitoring technologies that have been utilized.